

REMARKS

Reexamination of the captioned application is respectfully requested.

A. SUMMARY OF THIS AMENDMENT

By the current amendment, Applicants:

1. Thank the Examiner for the indication of allowable subject matter in claims 1-2, 4-8, 15-18, 24 and 28.
2. Cancel claims 9-10, 11-14, and 19 - 22 without prejudice or disclaimer.
3. Respectfully traverse all prior art rejections.

B. THE PATENTABILITY OF THE CLAIMS

Claims 1-2, 4-8, 15-18, 24 and 28 have been indicated to contain allowable subject matter (see enumerated paragraph 8 of the Office Action). Applicants appreciate this reiteration of allowability, but as a precaution note that Applicants disagree with the statements of the reasons for allowance to any extent that the reasons differ from the exact wording of the claims.

Claims 25-27 stand rejected under 35 USC 102(b) as being anticipated by U.S. Patent 3,471,708 to Rauhut et al (see enumerated paragraph 4 of the Office Action). Claim 10 stands rejected under 35 USC 103(a) as being unpatentable over U.S. Patent 3,471,708 to Rauhut et al in view of U.S. Patent 3,118,318 to Rauhut et al (see enumerated paragraph 7 of the Office Action). The prior art rejections of the pending claims are respectfully traversed.

Independent apparatus claim 25 includes a closed loop angular positioning control system which operates a rotary transformer for transferring power from the first electrical system to the second electrical system. Independent method claim 28 includes a step of adjusting an angular position of the rotary transformer so that a predetermined power is

rotary transformer for transferring power from the first electrical system to the second electrical system.

The sole mention in U.S. Patent 3,471,708 to Rauhut et al of power regulation is on column 2, lines 26-30. There Rauhut points out that power is proportional to current in the dc motor, and implies that controlling dc motor current is sufficient to regulate power. Note that in a dc motor, torque is proportional to armature current.

U.S. Patent 3,471,708 to Rauhut et al thus represents an open-loop control scheme where the operator sets torque (via dc motor current), and the machine moves as needed to achieve the desired power. The physics of the machine are such that desired power is proportional to applied torque, so this is a plausible concept (taught also in Rauhut, column 3 lines 22-30).

Rauhut also mentions several signals in a feedback mode. These are illustrated on his Fig 2 as delta speed, angle, delta power, and delta torque. It is clear from the teaching that these are used solely for stabilizing oscillations (column 5 lines 7-49). Thus, the Rauhut scheme is an open-loop torque control with stabilizing signals needed for operation.

In contrast, Applicants' claimed invention involves a closed-loop regulation scheme where measured power is used to achieve the desired steady-state response. Applicants' steady-state regulation differs from the delta type stabilization practiced by Rauhut. The particular implementation with speed regulation as an inner loop provides an inherent stabilization so the complexity of the added stabilizing feedback signals (and their processing), is not needed in Applicants' scheme.

With the benefit of the foregoing technical elucidation, the Examiner should have sufficient bases for withdrawing the rejections of the claims which remain pending, and therefore for again passing the application to allowance.

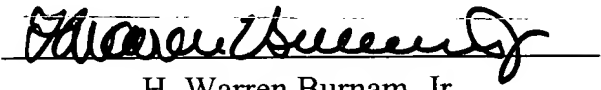
C. MISCELLANEOUS

The Commissioner is authorized to charge the undersigned's deposit account #14-1140 in whatever amount is necessary for entry of these papers and the continued pendency of the captioned application.

Should the Examiner feel that an interview with the undersigned would facilitate allowance of this application, the Examiner is encouraged to contact the undersigned.

Respectfully submitted,

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